FIG. 1 PRIOR ART

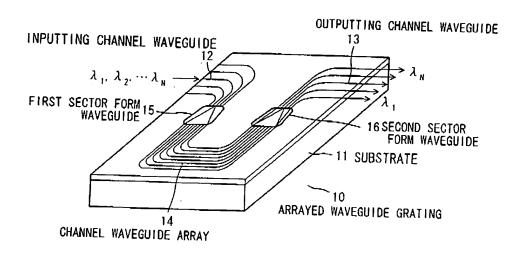
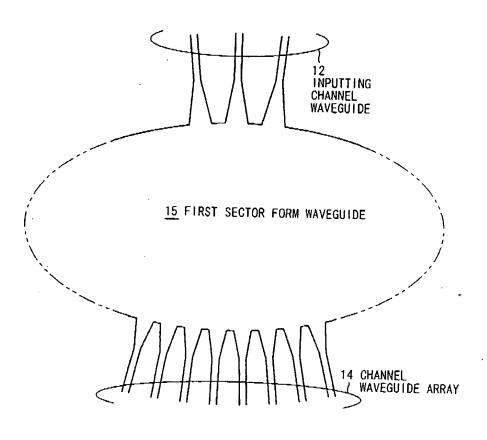
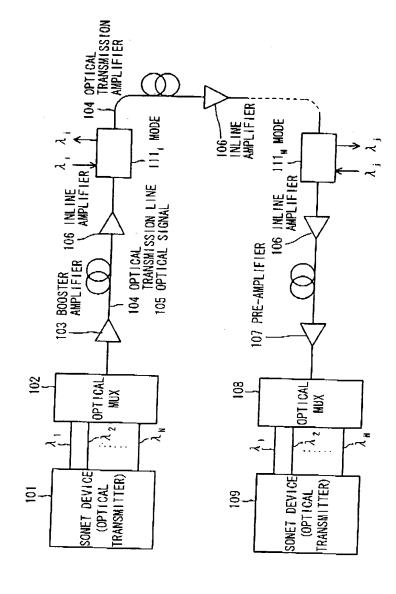


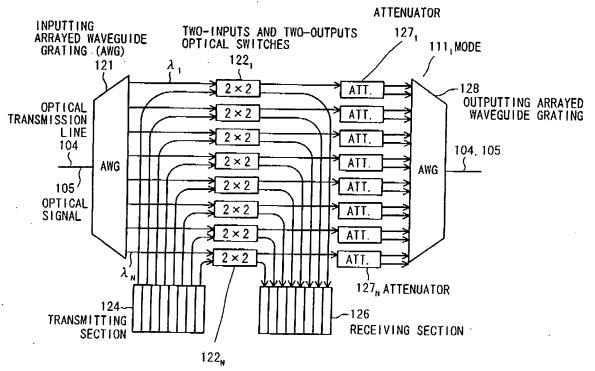
FIG. 2 PRIOR ART





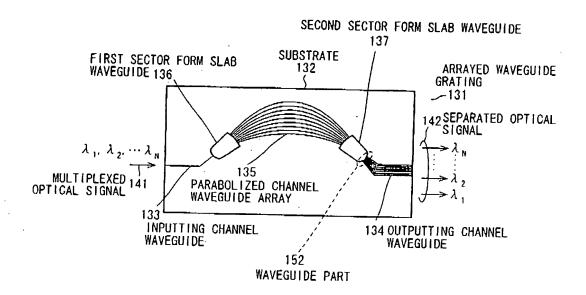


F/G. 4

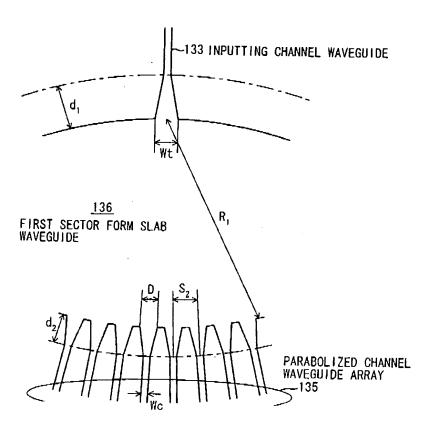


TWO-INPUTS AND TWO-OUTPUTS OPTICAL SWITCHES

F/G. 5

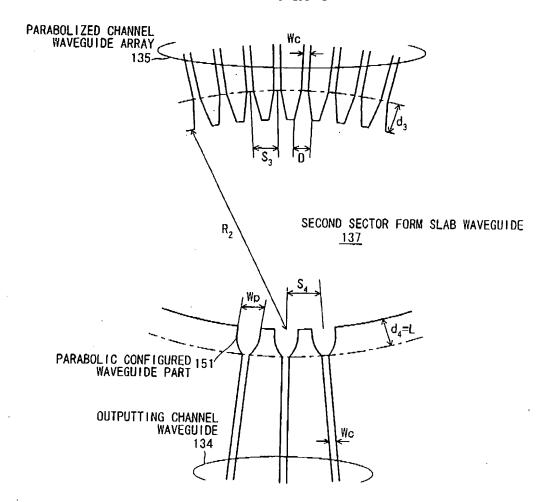


F/G. 6

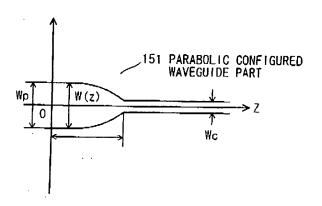


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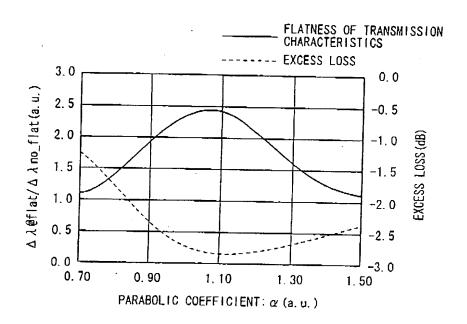
F/G. 7



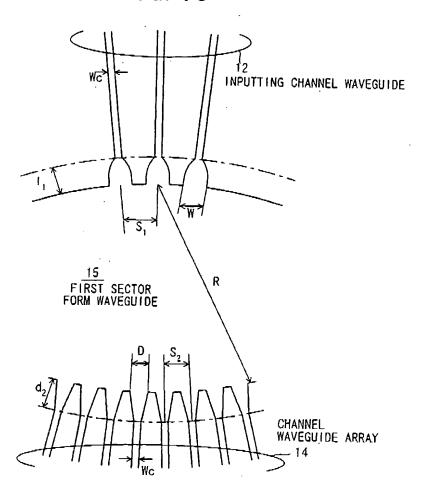
F/G. 8



F/G. 9



F/G. 10



F/G. 11

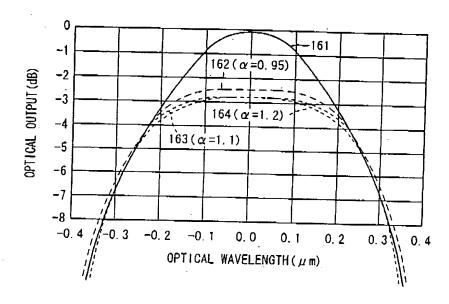
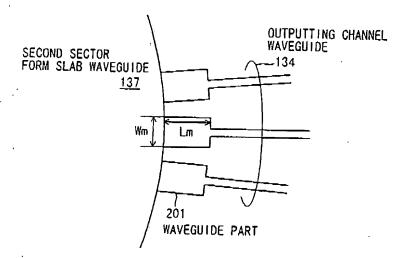


FIG. 12







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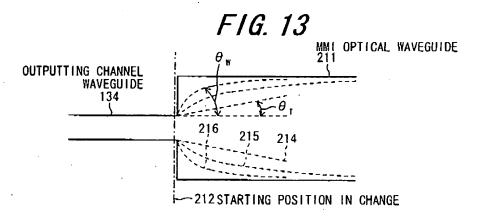
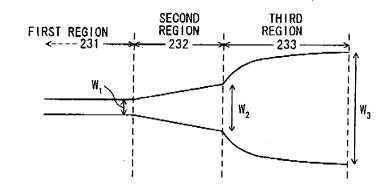


FIG. 14



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